



... Changing the way
wireless networks are built

+

CONCEALMENT CATALOGUE

CONCEALMENT

Traditional mobile networks were designed for voice call continuity and principally relied on macro sites. The seemingly insatiable demand for data requires cell splitting at a much finer level, placing network access points closer to the subscriber. The capacity and the ability to contour coverage with Band 41 makes it ideal for network densification. Network access points will be closer to where subscribers live, work and play. The CONCEALMENT set of solutions are designed to fit discreetly into its surroundings having a low visual impact on the community. These solutions will enable mobile network operators to reduce site planning and approval times, increase access to sites not accessible via the traditional approach, allow faster deployments therefore reducing costs.

		Frequency	Ports	Tilt	Gain	Beamwidth	
+	AW3610-S1-G	2496-2690MHz	4	MET	10.0	360°	PG 2 - 5
+	AW3611-S1-G	2496-2690MHz	2	MET	10.0	360°	PG 6 - 9
+	AW3612-S1-G	2496 - 2690MHz	4	eRET	10.0	360°	PG 10 - 13
+	AW3658-S-G	2496 - 2690MHz	4	Fixed	8.2	360°	PG 14 - 18

Canister

Panel

Small Cell

Concealment

Common Name- 4 Port B41 - CAN - MET

2496-2690MHz	4	MET	10.0	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Solution was created to address many deployment related issues within the mini macro deployment program. Key objective was to provide an integrated solution that would easily meet zoning and deployment requirements. This solution meets those criteria and reduces both CAPEX and deployment time by more than 50%

APPLICATION

Traditional mobile networks were designed for voice call continuity and principally relied on macro sites. The seemingly insatiable demand for data requires cell splitting at a much finer level, placing network access points closer to the subscriber. Network access points will be closer to where subscribers live, work and play. The CONCEALMENT set of solutions are designed to minimize the visual impact to the community. These solutions will enable the MNO to reduce the rent, backhaul and potentially power costs. They will help drive increased revenue.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

- Optimised for 3GPP band 38 & 41.
- 4x4 MIMO for maximum throughput.
- Independent tilt control across 6-Sectors.
- Integrated GPS Antenna.



The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

Canister

Panel

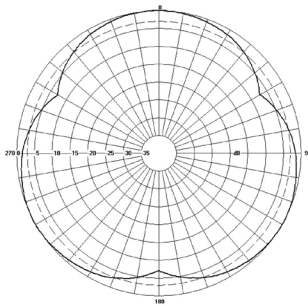
Small Cell

Concealment

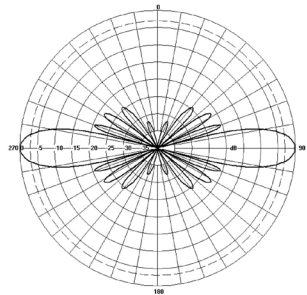
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	2496 - 2690MHz
Polarisation	Degree	+/- 45° Slant Linear
Gain		
Over all Tilts	dBi	10°
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	12°
Electrical Downtilt	Degree	T0° - T14°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.43
Return Loss	dB>	15
Isolation	dB>	28
Passive Intermodulation	dBc<	-150
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	12
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

For radiation pattern files, please login at www.alphawireless.com

Canister

Panel

Small Cell

Concealment

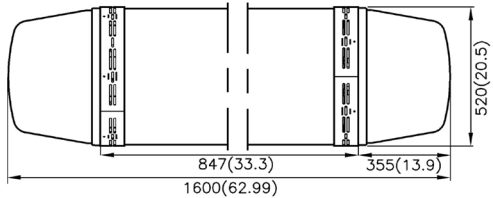
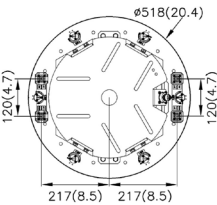
TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions (LxØ)	mm (in)	1600 (62.9) x 520 (20.5)
Volume	ft³ (l)	10.9 (304)
Packing Size (LxWxD)	mm (in)	1350 (53.1) x 550 (21.6) x 550 (21.6)
Net Weight (antenna)	kg (lb)	52 (115)
Shipping Weight	kg (lb)	55 (121)
Connector Type (Female)	-	4.3-10 and N Type GPS
Connector Quantity	-	5 (4 x 4.3-10 & 1 x N Type GPS)
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	650 (147)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	650 (147)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised ABS
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightning Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Mechanical Illustration

All measurements are in mm (in)



Canister

Panel

Small Cell

Concealment

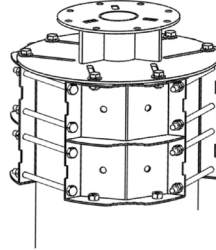
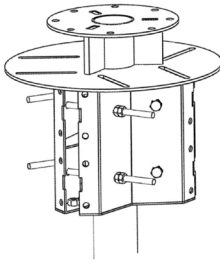
TECHNICAL SPECIFICATION

Electrical Power Specification

Power Requirement	VAC/Amp	110 - 120/ 20
Main Breaker	Amp	20
Fan Breaker	Amp	1
Mini Macro Radio	Amp	7
Microwave Radio	Amp	5
Surge Protection	VAC/Amp	150V / 40KA

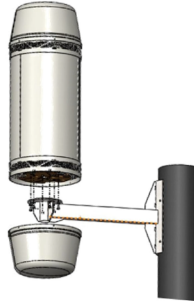
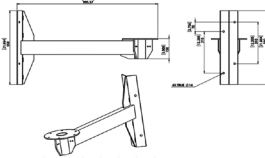
Mounting Bracket Kit

CL-V-128 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	3" - 12"

CL-V-134 - CAN Standoff Mounting Bracket (Optional)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	N/A

ORDERING INFO

AW3610-S1-G Manual Electrical Tilt (MET), Four 4.3/10 Connectors, Integrated GPS.
 CL-V-134 CAN Standoff Mounting Bracket - Optional

Canister

Panel

Small Cell

Concealment

Common Name- 2 Port B41 - CAN - MET

2496-2690MHz	2	MET	10.0	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Solution was created to address many deployment related issues within the mini macro deployment program. Key objective was to provide an integrated solution that would easily meet zoning and deployment requirements. This solution meets those criteria and reduces both CAPEX and deployment time by more than 50%

APPLICATION

Traditional mobile networks were designed for voice call continuity and principally relied on macro sites. The seemingly insatiable demand for data requires cell splitting at a much finer level, placing network access points closer to the subscriber. Network access points will be closer to where subscribers live, work and play. The CONCEALMENT set of solutions are designed to minimize the visual impact to the community. These solutions will enable the MNO to reduce the rent, backhaul and potentially power costs. They will help drive increased revenue

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

- Optimised for 3GPP band 38 & 41
- Dual Cross polarization antenna +/- 45°
- Independent tilt control across 3-sectors
- Integrated GPS Antenna

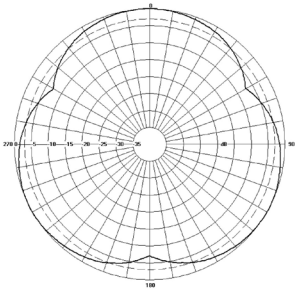


The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

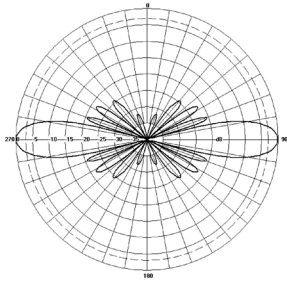
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	2496 - 2690MHz
Polarisation	Degree	+/- 45° Slant Linear
Gain		
Over all Tilts	dBi	10
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	12°
Electrical Downtilt	Degree	T0° - T14°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.43
Return Loss	dB>	15
Isolation	dB>	28
Passive Intermodulation	dBc<	-150
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	12
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

For radiation pattern files, please login at www.alphawireless.com

Canister

Panel

Small Cell

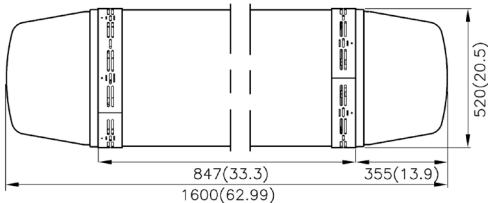
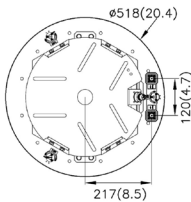
Concealment

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	1600 (62.9) x 520 (20.5)
Volume	ft³ (l)	10.9 (304)
Packing Size (LxWxD)	mm (in)	1350 (53.1) x 550 (21.6) x 550 (21.6)
Net Weight (antenna)	kg (lb)	45.5 (100)
Shipping Weight	kg (lb)	53 (117)
Connector Type (Female)	-	Mini DIN and N Type GPS
Connector Quantity	-	3 (2 x Mini DIN & 1 x N Type GPS)
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	650 (147)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	650 (147)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised ABS
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightning Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Mechanical Illustration

All measurements are in mm (in)



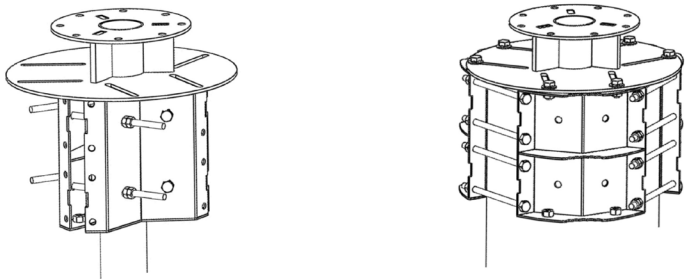
TECHNICAL SPECIFICATION

Electrical Power Specification

Power Requirement	VAC/Amp	110 -120 / 20
Main Breaker	Amp	20
Fan Breaker	Amp	1
Mini Macro Radio	Amp	7
Microwave Radio	Amp	5
Surge Protection	VAC/Amp	150V / 40KA

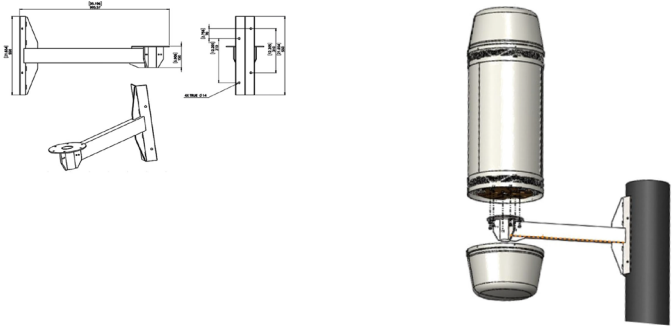
Mounting Bracket Kit

CL-V-128 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	3" - 12"

CL-V-134 - CAN Standoff Mounting Bracket (Optional)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	3" - 12"

ORDERING INFO

AW3611-S1-G Manual Electrical Tilt (MET) with Two Mini DIN Connectors, Integrated GPS.
CL-V-134 CAN Standoff Mounting Bracket - Optional

Common Name- 4 Port B41 - CAN - eRET

2496 - 2690MHz	4	eRET	10.0	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Solution was created to address many deployment related issues within the mini macro deployment program. Key objective was to provide an integrated solution that would easily meet zoning and deployment requirements. This solution meets those criteria and reduces both CAPEX and deployment time by more than 50%

APPLICATION

Traditional mobile networks were designed for voice call continuity and principally relied on macro sites. The seemingly insatiable demand for data requires cell splitting at a much finer level, placing network access points closer to the subscriber. Network access points will be closer to where subscribers live, work and play. The CONCEALMENT set of solutions are designed to minimize the visual impact to the community. These solutions will enable the MNO to reduce the rent, backhaul and potentially power costs. They will help drive increased revenue

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

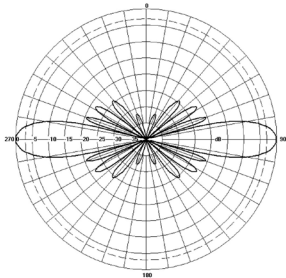
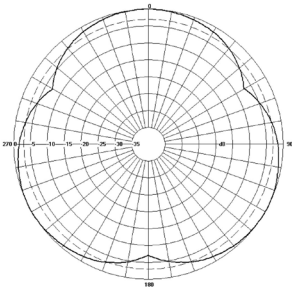
- Optimised for 3GPP band 38 & 41
- 4x4 MIMO for maximum throughput
- Independent tilt control across 6-sectors
- Integrated GPS Antenna
- AISG 2.0 compatible

The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	2496 - 2690MHz
Polarisation	Degree	+/- 45° Slant Linear
Gain		
Over all Tilts	dBi	10
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	12°
Electrical Downtilt	Degree	T0° - T14°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.43
Return Loss	dB>	15
Isolation	dB>	28
Passive Intermodulation	dBc<	-150
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	12
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth

Elevation

For radiation pattern files, please login at www.alphawireless.com

Canister

Panel

Small Cell

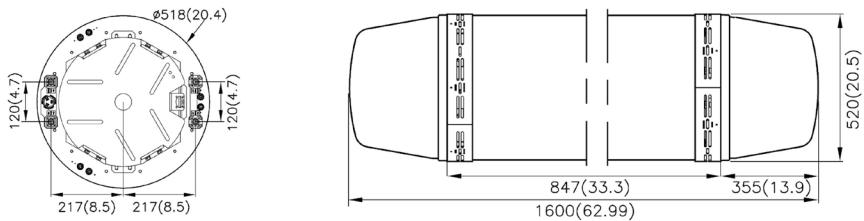
Concealment

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	1600 (62.9) x 520 (20.5)
Volume	ft ³ (l)	10.9 (304)
Packing Size (LxWxD)	mm (in)	1350 (53.1) x 550 (21.6) x 550 (21.6)
Net Weight (antenna)	kg (lb)	52 (115)
Shipping Weight	kg (lb)	55 (121)
Connector Type (Female)	-	4.3-10 and N Type GPS
Connector Quantity	-	5 (4 x 4.3-10 & 1 x N Type GPS)
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	650 (147)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	650 (147)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised ABS
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightning Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Mechanical Illustration

All measurements are in mm (in)



Canister

Panel

Small Cell

Concealment

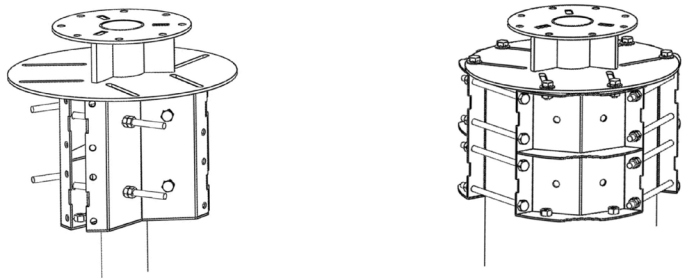
TECHNICAL SPECIFICATION

Electrical Power Specification

Power Requirement	VAC/Amp	110 - 120 / 20
Main Breaker	Amp	20
Fan Breaker	Amp	1
Mini Macro Radio	Amp	7
Microwave Radio	Amp	5
Surge Protection	VAC/Amp	150V / 40KA

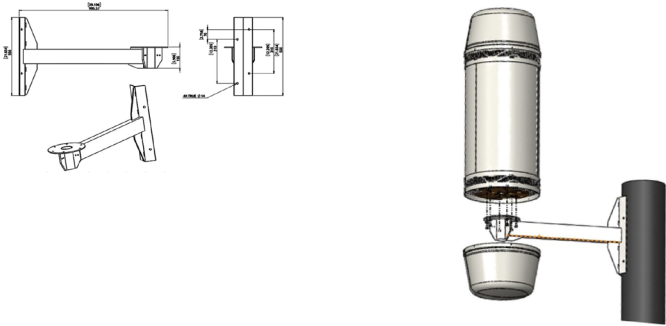
Mounting Bracket Kit

CL-V-128 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	3" - 12"

CL-V-134 – CAN Standoff Mounting Bracket (Optional)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	N/A

ORDERING INFO

AW3612-S1-G Enclosed Remote Electrical Tilt (eRET) with Four 4.3/10 Connectors, Integrated GPS.
CL-V-134 CAN Standoff Mounting Bracket - Optional

Common Name- 4 Port B41 - rCAN

2496 - 2690MHz	4	Fixed	8.2	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Solution was created to comply with FCC OTARD requirements to accelerate mini macro deployments on rooftop locations. Key objective was to provide an integrated solution one metre or less which would be easily and quickly deployable. This solution meets those criteria as well as reduces both CapEx and deployment times by more than 50%

APPLICATION

Traditional mobile networks were designed for voice call continuity and principally relied on macro sites. The seemingly insatiable demand for data requires cell splitting at a much finer level, placing network access points closer to the subscriber. Network access points will be closer to where subscribers live, work and play. The CONCEALMENT set of solutions are designed to minimize the visual impact to the community. These solutions will enable the MNO to reduce the rent, backhaul and potentially power costs. They will help drive increased revenue.



STANDARD & CERTIFICATIONS

Certification	BSEN ISO 9001:2015
 	

FEATURES

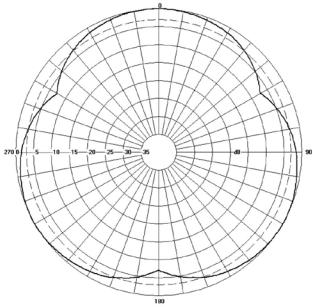
- Optimised for 3GPP band 38 & 41
- Compact design for low visual impact
- Rooftop deployment option
- Integrated GPS Antenna

The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

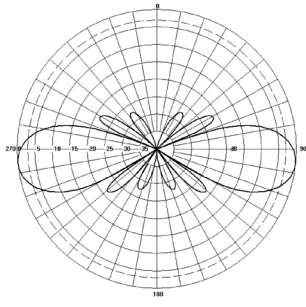
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	2496 - 2690MHz
Polarisation	Degree	+/- 45° Slant Linear
Gain		
Over all Tilts	dBi	8.2
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	14°
Electrical Downtilt	Degree	T6°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.43
Return Loss	dB>	15
Isolation	dB>	28
Passive Intermodulation	dBc<	-150
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	12
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

For radiation pattern files, please login at www.alphawireless.com

Canister

Panel

Small Cell

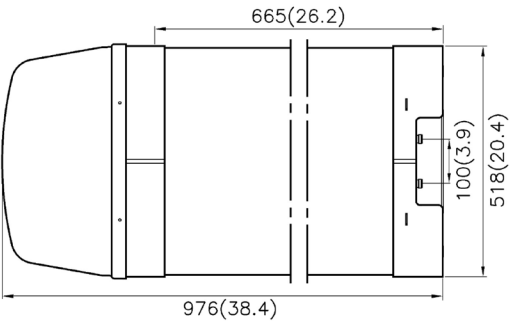
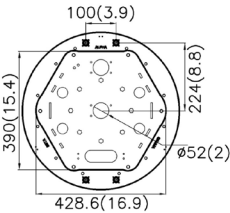
Concealment

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	976 (38.4) x 518 (20.4)
Volume	ft³ (l)	7.1 (201)
Packing Size (LxWxD)	mm (in)	1030 (40.5) x 525 (20.7) x 525 (20.7)
Net Weight (antenna)	kg (lb)	41 (90)
Shipping Weight	kg (lb)	42 (92)
Connector Type (Female)	-	Mini DIN and N Type GPS
Connector Quantity	-	5 (4 x 4.3-10 & 1 x N Type GPS)
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	395 (90)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	395 (90)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised ABS
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightning Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Mechanical Illustration

All measurements are in mm (in)



Canister

Panel

Small Cell

Concealment

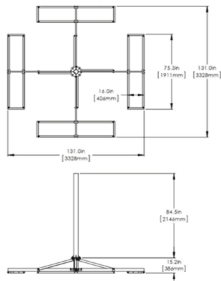
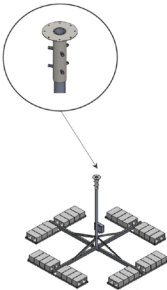
TECHNICAL SPECIFICATION

Electrical Power Specification

Power Requirement	VAC/Amp	110 - 120 / 20
Main Breaker	Amp	20
Fan Breaker	Amp	1
Mini Macro Radio	Amp	7
Microwave Radio	Amp	5
Surge Protection	VAC/Amp	40K

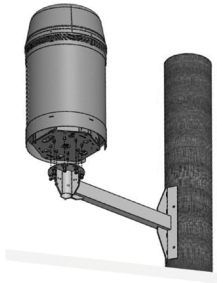
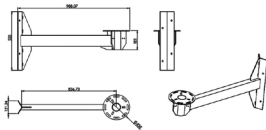
Mounting Bracket Kit

CL-V-133 – rCAN Full size SKID (Optional)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	50mm-115mm (2" to 4.5")

CL-V-135 – rCAN Standoff Mounting Bracket (Optional)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	N/A

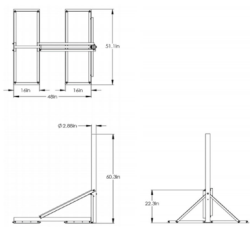
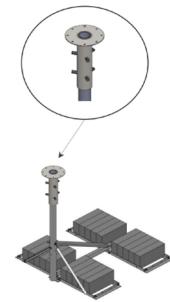
Canister

Panel

Small Cell

Concealment

CL-V-138 - rCAN reduced size SKID (Optional)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	50mm-115mm (2" to 4.5")

ORDERING INFO

AW3658-S-G	Six Degrees Fixed Tilt with 4 Mini Din Connectors, Integrated GPS
CL-V-133	rCAN full size skid - Optional
CL-V-135	rCAN Standoff Mounting Bracket - Optional
CL-V-138	rCAN reduced size skid - Optional



... Changing the way
wireless networks are built

CONTACT US

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